Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-20.   (Previously Canceled)

21.   (Currently Amended) A method for controlling a device for <u>the drying and</u> heat setting <u>of</u> a material placed on a textile as it is processed by a printing machine, comprising the steps of:

      connecting a plurality of control modules operably together through a backplane;

      programming an application module for controlling the heat generated by the device;

      receiving a power intensity value from a power intensity selector module;

      initiating a counter stored in a memory of a time selector module;

      incrementing the counter by the power intensity;

      comparing the counter and a base resolution; and,

      transmitting a power intensity output signal to the device based on the counter and the base resolution <u>wherein the power intensity value controls the heat for drying a material on a textile</u>.

22.   (Previously Presented) The method of Claim 21, wherein the steps of the method are repeated continuously until the expiration of a predetermined period of time.

23.   (Previously Presented) The method of Claim 21, further comprising the step of:

      selecting the power intensity value via the power intensity selector.

24.   (Previously Presented) The method of Claim 21, further comprising the steps of:

      determining a feature of the device; and,

      generating a shutdown signal based on a determination that the feature has exceeded a predetermined threshold value.

25.   (Previously Presented) The method of Claim 21, further comprising the step of:

      re-initiating the counter after generating the power intensity output signal.

26.   (Canceled)

27.   (Previously Presented) The method of Claim 21, further comprising the step of:

      selecting at least one of a plurality of lamps to receive the power intensity output signal.

28.   (Currently Amended) A system [[for]] comprising: controlling a device for heat setting a material placed on a textile printing machine, the device operably connected to a programmable logic controller comprising:

    a power intensity value selectable on a power intensity module;

    an application module for:

        initiating a counter;

        incrementing the counter by the power intensity value;

        comparing the counter and a base resolution; and,

        generating a power intensity output signal based on the comparison of the counter and the base resolution to control the heat setting generated by the device.

29.   (Previously Presented) The system of Claim 28, wherein a shutdown signal is generated for the system upon the expiration of a predetermined period of time.

30.   (Previously Presented) The system of Claim 29, further comprising a time cycle selector for determining the predetermined period of time.

31.   (Previously Presented) The system of Claim 28, further comprising a power intensity selector for determining the power intensity value.

32.   (Previously Presented) The system of Claim 28, further comprising a sensor for determining a feature of the system.

33.   (Previously Presented) The system of Claim 32, further comprising an actuator for generating a shutdown signal upon a determination that the feature has exceeded a predetermined threshold value.

34.   (Previously Presented) The system of Claim 28, wherein the application module is also for re-initiating the counter after generating the power intensity output signal.

35.   (Previously Presented) The system of Claim 28, wherein the application module is also for transmitting the power intensity output signal to a device for setting the material.

36.   (Previously Presented) The system of Claim 28, further comprising a selector for selecting at least one of a plurality of lamps to receive the power intensity output signal.

37.   (Currently Amended) A system [[for]] comprising: controlling a device for heat setting material placed on a textile as it is processed by a printing machine, the device operably connected to a programmable logic controller comprising:

a power intensity selector on a module for selecting a power intensity value;

a time cycle selector on a module for selecting a duration value;

a temperature selector on a module for selecting a temperature value;

a base resolution selector on a module for selecting a base resolution;

a lamp selector on a module for selecting at least one of a plurality of lamps to receive the power intensity output signal;

an application module configured to initiate a counter; increment the counter by the power intensity value; determine whether the counter is greater than the base resolution; upon a determination the counter is greater than the base resolution, generate a power intensity output signal and decrementing the counter by the base resolution; otherwise, increment the counter by the power intensity value; sense the temperature of an element of the system; determine whether the temperature of the element of the system has exceeded the temperature value; upon a determination the temperature of the element of the system has exceeded the temperature value, generate a system shutdown signal; compare the counter and the duration value; and, based upon the comparison of the counter and the duration value, generate a system shutdown signal; and

a backplane operably connecting the modules to each other to provide the communication path between modules to handle input and output signals from each module.

38.   (Currently Amended) A system [[for]] comprising: controlling a device for heat setting a material placed on a textile as it is processed by a printing machine, the device operably connected to a programmable logic controller comprising:

a backplane operably connecting each module in the programmable logic controller together for generating a power intensity value;

an application module for:

initiating a counter;

incrementing the counter by the power intensity value;

comparing the counter and a base resolution; and,

generating a power intensity output signal based on the comparison of the counter and the base resolution, wherein the base resolution is proportional to the power intensity value.